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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/718,370	11/20/2003	Naveen Chopra	D/99778D	9530
25453 75	90 . 07/06/2005		EXAMINER	
PATENT DOCUMENTATION CENTER			TRAN, THAO T	
DOCUMENTS AVE., SOUTH, AEROX SQUARE, 20TH FLOOR		ART UNIT	PAPER NUMBER	
		1711		

DATE MAILED: 07/06/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	10/718,370	CHOPRA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Thao T. Tran	1711				
The MAILING DATE of this comm	unication appears on the cover sheet v		dress			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
	filed on <u>07 April 2005</u> . 2b) This action is non-final. on for allowance except for formal mandictice under <i>Ex parte Quayle</i> , 1935 C.	•	e merits is			
Disposition of Claims						
5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) <u>1-12</u> is/are rejected. 7) ☐ Claim(s) is/are objected to	s/are withdrawn from consideration.					
Application Papers						
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review 3) Information Disclosure Statement(s) (PTO-1448) Paper No(s)/Mail Date	v (PTO-948) Paper No	Summary (PTO-413) o(s)/Mail Date Informal Patent Application (PT	O-152)			

Application/Control Number: 10/718,370 Page 2

Art Unit: 1711

DETAILED ACTION

Response to Amendment

- 1. This is in response to the Amendments filed 4/7/2005.
- 2. Claims 1-12 are currently pending in this application. Claim 1 has been amended. No claims have been canceled or added.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 1-12 are rejected under 35 U.S.C. 102(e) as being anticipated by Chopra et al. (US Pat. 6,488,870) or Chopra et al. (US Pat. 6,492,025).

The applied reference has a common assignee with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

Chopra '870 teaches a display device or an article of clothing, comprising a plurality of microcapsules adhereing to its surface by an adhesive, the microcapsule including a polymerized, optionally hardened shell encapsulating a liquid droplet and a particle component, and a second

Art Unit: 1711

coating encapsulating the shell (see abstract, Fig. 2; col. 2, ln. 16-20; col. 3, ln. 65 to col. 4, ln. 66; col. 6, ln. 35-45). The particle component is a single particle or from one to five particles, each particle being a bichromal ball having two hemispheric surfaces having different color and electrical characteristics; whereas the shell is insufficient to accommodate another similarly-sized particle that is in addition to the one or five particles (see col. 3, ln. 3-7; col. 5, ln. 33-38; col. 10, ln. 40-42). The particles are hemispheric bichromal balls, wherein one hemisphere is white due to titanium dioxide, and the other hemisphere is black due to magnetite or carbon black (see col. 5, ln. 33-54). The microcapsules have a diameter of about 10 to about 300 mm, and the shell has a thickness of about 0.5 to about 5 mm (see col. 7, ln. 34-39).

Chopra '870 further teaches hardening of the shell being formed by coating the microcapsules with a second coating in an emulsion (see col. 6, ln. 35-45). Thus, the hardened shell would be considered as micelle. Furthermore, since the hardened shell is optional, it's limitation would have no patentable weight. Hardening of the shell can also be induced by introducing a crosslinking agent into the emulsion during gelation for the formation of the shell (see col. 6, ln. 46-59). Thus, the hardened shell is in direct contact with the liquid droplet.

Chopra '025 teaches a display device or an article of clothing, comprising a plurality of microcapsules adhereing to its surface by an adhesive, the microcapsule including a polymerized, optionally hardened shell encapsulating a liquid droplet and a particle component, and a second coating encapsulating the shell (see abstract; Figs. 2-4; col. 2, ln. 4-8; col. 3, ln. 53 to col. 4, ln. 65; col. 6, ln. 23-33). The particle component is a single particle or from one to five particles, each particle being a bichromal ball having two hemispheric surfaces having different color and electrical characteristics; whereas the shell is insufficient to accommodate another similarly-

sized particle that is in addition to the one or five particles (see col. 2, ln. 59-62; col. 5, ln. 21-26; claims 1-2, 7-12, 19). The particles are hemispheric bichromal balls, wherein one hemisphere is white due to titanium dioxide, and the other hemisphere is black due to magnetite or carbon black (see col. 5, ln. 21-33). The microcapsules have a diameter of about 10 to about 300 mm, and the shell has a thickness of about 0.5 to about 5 mm (see col. 7, ln. 22-26).

Chopra '025 further teaches hardening of the shell being formed by coating the microcapsules with a second coating in an emulsion (see col. 6, ln. 23-37). Thus the hardened shell would be considered as micelle. Furthermore, since the hardened shell is optional, it's limitation would have no patentable weight. Hardening of the shell can also be induced by introducing a crosslinking agent into the emulsion during gelation for the formation of the shell (see col. 6, ln. 34-47). Thus, the hardened shell is in direct contact with the liquid droplet.

Response to Arguments

5. Applicant's arguments filed 4/7/2005 have been fully considered but they are not persuasive.

Applicants contend that the references Chopra '870 and Chopra '025 differ from the presently claimed invention in that the references teach the hardened shell as a second coating, therefore the shell cannot be in direct contact with the liquid droplet. However, as pointed out in paragraph 4 above, these references also teach hardening of the shell by introducing a crosslinking agent to the emulsion during gelation to form a hardened shell. Thus, the shell surrounding the liquid droplet is hardened and is in direct contact with the liquid droplet.

Application/Control Number: 10/718,370

Art Unit: 1711

Conclusion

Page 5

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thao T. Tran whose telephone number is 571-272-1080. The examiner can normally be reached on Monday-Friday, from 9:00 a.m. - 5:30 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck can be reached on 571-272-1078. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/718,370

Art Unit: 1711

Page 6

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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June 29, 2005

THAOT.TRAN
PATENT EXAMINES

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